

Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier **INTERLABOSIL CATALYST**

UFI code RES6-MR7J-3YAM-ARM7

1.2. Relevant identified uses of the substance or mixture and uses advised against
 Catalyst for polymerization of hydroxyl dimethylpolysiloxane.

1.3 Details of the supplier of the safety data sheet

		<i>Production:</i>
Manufacturer/Supplier:	INTERDENT d.o.o.	INTERDENT d.o.o.
Street:	Opekarniška cesta 26	Dol 1
Country code /Postal code/City:	SI-3000 Celje	SI-3342 Gornji Grad
Telephone:	+386(0) 425-62-00	
Fax:	+368(0) 490-62-02	

1.4 Emergency telephone number

Emergency phone: 112 (EU)
+386(0) 425-62-00 (8.00-16.00)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

Hazard class	Hazard category	Hazard statements
Flammable liquids	3	H226: Flammable liquid and vapor.
Acute toxicity (inhal.)	4	H332 Harmful if inhaled.
Specific target organ toxicity — Single exposure	3	H335 May cause respiratory irritation.
Serious eye damage/eye irritation	2	H319 Causes serious eye irritation.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008:

Hazard pictograms:



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Signal word: WARNING

Hazard Statement(s):

H226 Flammable liquid and vapor.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H319 Causes serious eye irritation.

Precautionary statements:

Prevention:

P210 Keep away from heat, sparks, open flames, hot surfaces. No smoking.
 P233 Keep container tightly closed.
 P280 Wear protective gloves/ eye protection.
 P261 Avoid breathing vapours.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention.
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Disposal:

P501: Dispose of contents/ container in accordance with local regulation.

Substances on the label:

Tetraethyl silicate

2.3 Other hazards:

Substance(s) formed under the conditions of use:

SECTION 3: Composition / information on ingredients

3.1 Mixture

Chemical Name	CAS Nr. EC-Number INDEX number	%	Classification according to EC 1272/2008	
			Hazardous class/ hazardous category	Hazardous phrases
Tetraethyl silicate	201-083-8 78-10-4 01-2119496195-28-003	10-25	Flam.Liq.3 Acute Tox 4(inhale) STOT SE 3 Eye irrit. 2	H226 H332 H335 H319

SECTION 4: First Aid Measures

4.1 Description of first aid measures

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General: Get medical attention if symptoms occur. Contaminated clothing to be placed in closed container until disposal or decontamination.

Inhalation: Move into fresh air and keep at rest.

Eye contact: In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes.

Skin Contact: Remove contaminated clothing and shoes. Wash with soap and water.

Ingestion: Do not induce vomiting. Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No specific recommendations.

Treatment: No specific recommendations.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Extinguish with foam, carbon dioxide, dry powder, sand, water mist..

Unsuitable extinguishing media:

Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture

During combustion, harmful and toxic gases are released.

5.3 Advice for firefighters

Special firefighting procedures:

Spray containers with water to keep them cool. Contain extinguishing media to prevent them from entering surrounding water, sewage systems, or soil.

Special protective equipment for firefighters:

In case of fire, wear a self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapor. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

6.2 Environmental precautions

Collect the spilled liquid. Do not discharge into drains, surface water, or soil. Contain firefighting media to prevent release into surrounding water, sewage systems, or soil and remove it in a designated container.

6.3 Methods and material for containment and cleaning up

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Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Container must be kept tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Absorb with sand or other inert absorbent. To clean the floor and all objects contaminated by this material, use an appropriate solvent. (cf. : § 9) Flush area with plenty of water. Incinerate in suitable combustion chamber. Notification Procedures: Caution: Contaminated surfaces may be slippery. For waste disposal, see section 13 of the SDS.

6.4 Reference to other sections

Safe handling: see section 7. Personal protection equipment: see section 8. Disposal: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

During use, ensure ventilation (open windows, central ventilation system). Avoid contact with skin, eyes, and clothing. Keep in tightly closed containers.

7.2 Conditions for safe storage, including any incompatibilities

Avoid discharge into drains, water courses or onto the ground. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

EU – Commission Directive 98/24/EC with all amendments and supplements, Regulation on the protection of workers from risks related to exposure to chemical substances at work (Official Gazette of RS, No. 72/2021, 29/2024, 26/2025), Regulation on the protection of workers from risks related to exposure to carcinogenic, mutagenic, or reprotoxic substances at work (Official Gazette of RS, No. 29/2024, 26/2025):

Occupational exposure limit values:

Chemical name: Tetraethyl silicate; ethyl silicate: OEL 8 h: 5 ppm, 44 mg/m³; KTV: 5 ppm, 44 mg/m³

Chemical name: Tetramethyl orthosilicate: OEL 8 h: 0,3 ppm, 2 mg/m³; KTV: 0,3 ppm, 2 mg/m³

Chemical name: 5,5-Dibutyl-3,3,7,7-tetramethoxy-2,4,6,8-tetraoxa-3,7-disila-5-stannanonane – Inhalable fraction. - as Sn: OEL 0,1 mg/m³

Chemical name: Ethyl acetate: OEL 8 h: 200ppm, 734 mg/m³; KTV: 400ppm, 1468 mg/m³

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Additional exposure limits under the conditions of use

Chemical name: methanol: OEL 8 h: 200 ppm, 260 mg/m³; KTV: 800 ppm, 1040 mg/m³

Chemical name: ethanol, ethyl alcohol: OEL: 8 h: 960 mg/m³, 500 ppm; KTV: 1000 ppm, 1920 mg/m³

8.2 Exposure controls

Appropriate engineering controls: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors. Use engineering controls to reduce air contamination to permissible exposure level. Get medical advice/attention.

Individual protection measures, such as personal protective equipment:

General information: Provide sufficient ventilation during operations which cause vapor formation.

Eye/face protection: Safety goggles (EN 166:2001)

Skin protection: Hand Protection: It is recommended to use chemically resistant gloves, Type A or B, according to EN 374-1.

Other: It is a good industrial hygiene practice to minimize skin contact. Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory Protection: If ventilation is insufficient, suitable respiratory protection must be provided (EN 136:1998; 140:1999/AC:2000; EN 14387:2004+A1:2008).

Respiratory protection: Depending on the intended use, the user is exposed to 3 g of product, which acts as a catalyst and reacts with putty silicone to form cured silicone. Respiratory protection is not required for this use; however, it is necessary to open windows or use other available local exhaust ventilation in the dental laboratory during use.

Hygiene measures: Provide eyewash station and safety shower.

Environmental Controls: No data available.

Chemical name: Tetraethyl orthosilicate (CAS 78-10-4)

DNEL (workers, long-term systemic effect, inhalation): 44 mg/m³

DNEL (workers, long-term systemic effect, dermal): 6.3 mg/kg body weight/day

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

Physical state: Liquid

Form: Extremely viscous.

Color: Red

Odor: Mint.

Odor Threshold: No data available.

pH: Not applicable.

Freezing point: No data available.

Boiling Point: No data available.

Flash Point: 24 °C (Closed cup according to method ASTM D-56.)

Evaporation Rate: No data available.

Flammability (solid, gas): No data available.

According to Regulation (EC) No. 1907/2006 and (EC) No. 1272/2008

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<i>Flammability Limit - Upper (%)</i> –:	No data available.
<i>Flammability Limit - Lower (%)</i> –:	No data available.
<i>Vapor pressure:</i>	No data available.
<i>Vapor density (air=1):</i>	No data available.
<i>Relative density:</i>	1 (20 °C) Approximate
Solubility(ies):	
<i>Solubility in Water:</i>	Practically Insoluble
<i>Solubility (other):</i>	Diethylether.: Miscible (in all proportions).
<i>Chlorinated solvents.:</i>	Miscible (in all proportions).
<i>Aromatic hydrocarbons.:</i>	Miscible (in all proportions).
<i>Aliphatic hydrocarbons.:</i>	Miscible (in all proportions).
<i>Acetone.:</i>	Very slightly soluble.
<i>Ethanol.:</i>	Very slightly soluble.
<i>Partition coefficient (n-octanol/water):</i>	No data available.
<i>Autoignition Temperature:</i>	No data available.
<i>Decomposition Temperature:</i>	No data available.
<i>Viscosity:</i>	3 000 000 mm ² /s
<i>Explosive properties:</i>	No data available.
<i>Oxidizing properties:</i>	According to the data on the components Not considered as oxidizing. (evaluation by structure-activity relationship)

9.2 Other information

No additional information relevant.

SECTION 10: Stability and reactivity

10.1 Reactivity: No other information noted.

10.2 Chemical Stability: Stable.

10.3 Possibility of Hazardous Reactions:

Reacts slowly on contact with water or humidity.

10.4 Conditions to Avoid: No other information noted.

10.5 Incompatible Materials: Strong oxidizing agents.

10.6 Hazardous Decomposition Products:

During vulcanisation, on contact with the catalyst, releases flammable vapours which may generate fire or explosion hazards toxic vapours. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Amorphous silica.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhalation: No data available.

Ingestion: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Acute toxicity:

Oral: Product: ATEmix (): 1 538,54 mg/kg Harmful if swallowed.

Dermal: Product: Not classified for acute toxicity based on available data.

Inhalation: Product: ATEmix (4 h): 0,21 mg/l Vapor

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Repeated dose toxicity: Product: Composition/information on ingredients
Specified substance(s): tetraethyl silicate; ethyl silicate NOAEL (Rat): 50 mg/kg
Skin Corrosion/Irritation: Product: Causes severe skin burns and eye damage.
Serious Eye Damage/Eye Irritation: Product: Causes serious eye damage.

Respiratory or Skin Sensitization:
Product: May cause an allergic skin reaction.

Germ Cell Mutagenicity:
In vitro: Product: Contains a substance which may have a mutagenic effect.
In vivo: Product: No data available.

Carcinogenicity:
Product: No data available.

Reproductive toxicity:
Product: May damage fertility. May damage the unborn child.

Reproductive toxicity (Fertility):
Product: No data available.

Developmental toxicity (Teratogenicity):
Product: No data available.

Specific Target Organ Toxicity - Single Exposure:
Product: May cause damage to organs.

Specific Target Organ Toxicity - Repeated Exposure:
Product: May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard:
Product: No data available.

Other Adverse Effects:
No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity:

Fish:

Product: Composition/information on ingredients

Specified substance(s):

tetraethyl silicate; ethyl silicate: LC 50 (Zebra danio (Danio rerio), 96 h): 245 mg/l Mortality
ethyl acetate: LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 399 - 602 mg/l Mortality

2-ethylhexanoic acid: LC 50 (Atlantic Salmon, 96 h): 180 mg/l
LC 50 (Common Carp, 48 h): > 302 mg/l

Methanol: LC 50 (Bluegill (Lepomis macrochirus), 96 h): 15 400 mg/l

According to Regulation (EC) No. 1907/2006 and (EC) No. 1272/2008

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ethanol; ethyl alcohol: LC 50 (Bleak (*Alburnus alburnus*), 96 h): 11 000 mg/l Mortality

Aquatic Invertebrates:

Product: Composition/information on ingredients

Specified substance(s):

tetraethyl silicate; ethyl silicate: EC 50 (Water flea (*Daphnia magna*), 48 h): > 75 mg/l Mortality

ethyl acetate LC 50 (Water flea (*Daphnia magna*), 48 h): 819 mg/l Mortality

2-ethylhexanoic acid: EC 50 (Water flea (*Daphnia magna*), 48 h): 85,38 mg/l

methanol LC 50 (Water flea (*Daphnia magna*), 48 h): > 10 000 mg/l

ethanol; ethyl alcohol LC 50 (Water flea (*Daphnia magna*), 48 h): 12 310 - 14 724 mg/l Mortality

Chronic Toxicity:

Fish:

Product: No data available.

Aquatic Invertebrates:

Product: Composition/information on ingredients

Specified substance(s):

2-ethylhexanoic acid: NOEC (Water flea (*Daphnia magna*), 21 d): 25 mg/l

Toxicity to Aquatic Plants:

Product: Composition/information on ingredients

Specified substance(s):

tetraethyl silicate; ethyl silicate EC 50 (Algae (*Pseudokirchneriella subcapitata*), 72 h):
>= 22 mg/l

2-ethylhexanoic acid EC 50 (Alga, 72 h): 49,3 mg/l

methanol EC 50 (Algae (*Pseudokirchneriella subcapitata*), 96 h): 22 000 mg/l

12.2 Persistence and Degradability

Biodegradation:

Product: Composition/information on ingredients

Specified substance(s):

tetraethyl silicate; ethyl silicate: 98 % (28 d) Expected to be readily biodegradable.

2-ethylhexanoic acid: 90 - 100 % (28 d) The product is easily biodegradable. 85 - 95 % (6 d)

Methanol: Expected to be readily biodegradable.

BOD/COD Ratio:

Product: No data available.

12.3 Bioaccumulative Potential

Product: No data available.

Specified substance(s):

tetraethyl silicate; ethyl silicate: Bioconcentration Factor (BCF): 3,16 The product is not bioaccumulating.

ethyl acetate Green algae (*Chlorella fusca vacuolata*), Bioconcentration Factor (BCF): 13 500

methanol: Will not bio-accumulate.

12.4 Mobility in Soil

No data available.

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<p>12.5 Results of PBT and vPvB assessment Composition/information on ingredients <i>tetraethyl silicate; ethyl silicate:</i> None Reported</p> <p>12.6 Endocrine disrupting properties No data available.</p> <p>12.7 Other Adverse Effects No data available.</p>
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<p>SECTION 13: Disposal considerations</p> <p>13.1 Waste treatment methods <i>Methods of disposal:</i> Dispose in accordance with Regulation about handling with waste.</p> <p><i>Waste disposal:</i> Store waste separately. Due to the risk of contamination, dispose of it as industrial waste or as hazardous waste.</p> <p><i>Contaminated packaging:</i> Store separately. Due to the risk of contamination, dispose of it as industrial waste or as hazardous waste.</p> <p><i>Waste category:</i> 16 03 05* Organic wastes containing dangerous substances</p>

SECTION 14: Transport Information			
	ADR/RID	IMDG	IATA
14.1 UN number	UN 1993		
14.2 UN proper shipping name	flammable liquid, toxic, n.o.s		
14.3 Transport hazard class(es)			
Class	3		
Label(s)	3, 6.1	3, 6.1	3, 6.1
Hazard identification	33	/	/
EmS	/	F-E, S-E	/
14.4 Packing group	II		
14.5 Environmental hazards	n.a.	n.a.	n.a.
14.6 Special precautions for user	No special precautions		Passenger and cargo aircraft: Allowed Cargo aircraft only: Allowed
14.7 Maritime transport in bulk according to IMO instruments	Not applicable		

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SECTION 15: Regulatory information

15.1 Regulations/legislation specific for the substance or mixture

The product is classified according to the requirements of Regulation (EC) No. 1272/2008 and 1907/2006, including their amendments, as well as the corresponding national laws: Regulation on the implementation of the EU Regulation on the Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH), Official Gazette of the RS, No. 23/08 and 191/20, and the Regulation on the implementation of EU Regulation No. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling, and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No. 1907/2006, Official Gazette of the RS, No. 56/10.

15.2 Chemical safety assessment

No information is available as to whether a chemical safety assessment has been carried out for the individual components of the mixture.

SECTION 16: Other information

Revision:

Version 05 issued in July 2025 in accordance with EC 1907/2006 (Commission Regulation (EU) 2015/830) and EC 1272/2008.

Revision in accordance to changes in COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Legend of abbreviations:

ADR – European agreement concerning the international carriage of dangerous goods by road

CAS – Chemical Abstracts Service

CLP – Classification, Labeling and Packaging

CMR – Carcinogenic, Mutagenic or toxic for Reproduction

DNEL - Derived no-effect level

EC₅₀: Half maximal effective concentration

EmS – Emergency Schedule

GHS – Globally Harmonised System of Classification and Labeling of Chemicals

IATA – International Air Transport Association

IMDG – International Maritime Dangerous Goods Code

LC₅₀: Lethal concentration, 50%

LD₅₀: Median lethal dose; the dose causing 50% lethality

MARPOL – International convention for the prevention of pollution from ships

NOEC - No-observed-effect concentration

OEL - Occupational exposure limit

OECD - Organisation for Economic Co-operation and Development

PBT – Persistent Bioaccumulative Toxic

PNEC: Predicted no-effect concentration

Ppm – parts per million

REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals

RID – Regulation concerning the international carriage of dangerous goods by rail

vPvB – very Persistent and very Bioaccumulative

References:

According to Regulation (EC) No. 1907/2006 and (EC) No. 1272/2008

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- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)
- Commission Directive 2009/161/EU
- Safety data sheets from raw material manufacturers
- Martindale: The Extra Pharmacopoeia, 13th edition
- Website: <https://chem.echa.europa.eu/>
- European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- Regulation implementing the EU Regulation on Personal Protective Equipment (Official Gazette of the RS, No. 33/18)
- List of harmonized standards for personal protective equipment (C 412 / 11.12.2015, with all amendments and updates)
- Occupational Safety and Health Act (Official Gazette of the RS, No. 43/2011)
- Waste Management Regulation (Official Gazette of the RS, Nos. 77/22 and 113/23)
- Packaging and Packaging Waste Regulation (Official Gazette of the RS, Nos. 54/21, 208/21, 44/22 – ZVO-2, and 120/22)
- European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- Decision on the publication of Annexes A and B to the European Agreement on the International Carriage of Dangerous Goods by Road (ADR)
- Dangerous Goods Regulations (DGR) for air transport (IATA)
- International Maritime Dangerous Goods Code (IMDG)
- EU – Commission Directive 98/24/EC with all amendments and updates
- Regulation on the protection of workers from risks related to chemical exposure at work (Official Gazette of the RS, Nos. 72/2021, 29/2024, 26/2025)
- Regulation on the protection of workers from risks related to exposure to carcinogenic, mutagenic, or reprotoxic substances at work (Official Gazette of the RS, Nos. 29/2024, 26/2025)

Disclaimer of expressed and implied warranties:

The information contained in the safety data sheet have been translated from the manufacturer, revised in accordance with the Slovenian legislation. Guidelines for the safe use, handling, disposal, storage and transportation and cannot be used as a guarantee. The information relates only to the specific product and is not suitable for combining with other materials or for use in another process as described in the instructions.